



INFORMATION DISCLOSURE CITATION

Docket No.:
RLL-256.3CIPUS

Serial No.: 10/552,455

Applicants: SALMAN *et al.*

Filed: 10/7/2005

Group:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/GS/	A1	2,490,714	12/6/1949	Searle	260	239	
	A2	3,176,019	3/30/1965	Campbell <i>et al.</i>	260	293.4	
	A3	5,001,160	3/19/1991	McPherson <i>et al.</i>	514	255	
	A4	5,164,402	11/17/1992	Brighty	514	300	
	A5	5,281,601	1/25/1994	Cross <i>et al.</i>	514	320	
	A6	5,397,800	3/14/1995	Alker <i>et al.</i>	514	413	
	A7	5,948,792	9/7/1999	Tsuchiya <i>et al.</i>	514	317	
	A8	6,130,232	10/10/2000	Mase <i>et al.</i>	514	318	
	A9	6,174,900	1/16/2001	Okada <i>et al.</i>	514	317	
	A10	6,313,312	11/6/2001	Banks <i>et al.</i>	548	452	
	A11	5,179,108	1/12/1993	George <i>et al.</i>	514	319	
	A12	2003/0105071	6/5/2003	Cuny <i>et al.</i>	514	210.2	
	A13	2003/0162780	8/28/2003	Brotherton-Pleiss <i>et al.</i>	514	235.5	
	A14	2003/0171362	9/11/2003	Madera <i>et al.</i>	514	218	
	A15	7,232,835	6/19/2007	Mehta <i>et al.</i>	514	323	

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	B2	EP 0 325 571	7/26/1989	EPO	C07C	215/54	
	B3	EP 0 388 054	9/19/1990	EPO	C07D	207/08	
	B4	EP 0 413 455	2/20/1991	EPO	C07D	401/04	
	B5	EP 0 613 232	8/31/1994	EPO	H02M	3/335	
	B6	EP 0 801 067	10/15/1997	EPO	C07D	453/02	

EXAMINER /Golam Shameem/

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06/02/2008

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	B10	JP 135958/1994	5/17/1994	Japan	C07D	333/16		
	B11	JP 92921/1994	4/5/1994	Japan	C07C	237/20		
	B12	WO 91/09013	6/27/1991	PCT	C07D	207/08		
	B13	WO 93/16018	8/19/1993	PCT	C05F	17/02		
	B14	WO 93/16048	8/19/1993	PCT	C07D	211/26		
	B15	WO 96/33973	10/31/1996	PCT	C07D	211/46		
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	B19	WO 98/53814	12/3/1998	PCT	A61K	31/395		
	B20	WO 01/42212	6/14/2001	PCT	C07D	211/48		
	B21	WO 01/42213	6/14/2001	PCT	C07D	211/58		
	B22	WO 01/90081	11/29/2001	PCT	C07D	241/08		
	B23	WO 02/00652	1/3/2002	PCT	C07D	453/02		
	B24	WO 02/04402	1/17/2002	PCT	C07C	219/10		
	B25	WO 02/51841	7/4/2002	PCT	C07D	453/02		
	B26	WO 02/06241	1/24/2002	PCT	C07D	223/16		
	B27	WO 02/53564	7/11/2002	PCT	C07D	453/02		
	B28	WO 04/004629	1/15/2004	PCT	A61K			
	B29	WO 04/005252	1/15/2004	PCT	C07D	209/52		
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	B31	WO 04/014853	2/19/2004	PCT	C07D	209/02		
	B32	WO 04/018422	3/4/2004	PCT	C07D	209/52		
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	B37	WO 04/089900	10/21/2004	PCT	C07D	209/52		
	B38	WO 99/43657	9/2/1999	PCT	C07D	211/26		
	B39	WO 01/47893	7/5/2001	PCT	C07D	221/24		
	B40	WO 01/090082	11/29/2001	PCT	C07D	241/08		
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	B45	WO 04/069835	8/19/2004	PCT	C07D	471/08		
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	B49	WO 2005/092341	10/6/2005	PCT	A61K	31/496		
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↓	C2	Cheng and Prusoff, "Relationship between the inhibition constant (K_i) and the concentration of inhibitor which causes 50 per cent inhibition (I_{50}) of an enzymatic reaction", <i>Biochemical Pharmacology</i> , 22:3099-3108 (1973)
↓	C3	Birdsall et al., "Muscarinic receptors: it's a knockout", <i>Trends in Pharmacological Sciences</i> , 22(5):215-219 (2001)

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	Applicants: SALMAN <i>et al.</i>	
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/GS/	C4	Brighty et al., "Synthesis of (1 α ,5 α ,6 α)-6-Amino-3-azabicyclo[3.1.0]hexane, a Novel Achiral Diamine", <i>Synlett</i> , 1097-1099 (1996)
	C5	Braish et al., "Construction of the (1 α ,5 α ,6 α)-6-Amino-3-azabicyclo[3.1.0]hexane Ring System", <i>Synlett</i> , 1100-1102 (1996)
	C6	Chapple, "Muscarinic receptor antagonists in the treatment of overactive bladder", <i>Urology</i> , 55(Suppl. 5A):33-46 (2000)
	C7	Eglen et al., "Muscarinic receptor ligands and their therapeutic potential", <i>Current Opinion in Chemical Biology</i> , 3:426-432 (1999)
	C8	Eglen et al., "Therapeutic opportunities from muscarinic receptor research", <i>Trends in Pharmacological Sciences</i> , 22(8):409-414 (2001)
	C9	Felder et al., "Therapeutic Opportunities for Muscarinic Receptors in the Central Nervous System", <i>Journal of Medicinal Chemistry</i> , 43(23):4333-4353 (2000)
	C10	Grover et al., "Chiral Mandelic Acid Template Provides a Highly Practical Solution for (S)-Oxybutynin Synthesis", <i>Journal of Organic Chemistry</i> , 65:6283-6287 (2000)
	C11	Shacklett and Smith, "The Preparation of Substituted Benzoic Acids", <i>Journal of the American Chemical Society</i> , 75:2654-2657 (1953)
	C12	Sagara et al., "Cyclohexylmethylpiperidinyltriphenylpropioamide: A Selective Muscarinic M ₃ Antagonist Discriminating against the Other Receptor Subtypes", <i>Journal of Medicinal Chemistry</i> , 45:984-987 (2002)
	C13	Nkpa and Chedekel, "Mechanistic Studies on the Addition of Cysteine to 3,4-Dihydroxyphenylalanine", <i>Journal of Organic Chemistry</i> , 46:213-215 (1981)
	C14	Kadin and Cannon, "Esters of N-Methyl-3-hydroxypiperidine Having Psychotomimetic Activity. II", <i>Journal of Organic Chemistry</i> , 27:240-245 (1962)
	C15	Broadley and Kelly, "Muscarinic Receptor Agonists and Antagonists", <i>Molecules</i> , 6:142-193 (2001)
	C16	Moriya et al., "Affinity Profiles of Various Muscarinic Antagonists for Cloned Human Muscarinic Acetylcholine Receptor (mAChR) Subtypes and mAChRs in Rat Heart and Submandibular Gland", <i>Life Sciences</i> , 64(25):2351-2358 (1999)
	C17	Kubo et al., "Cloning, sequencing and expression of complementary DNA encoding the muscarinic acetylcholine receptor", <i>Nature</i> , 323(2):411-416 (1986)
	C18	Bonner et al., "Identification of a Family of Muscarinic Acetylcholine Receptor Genes", <i>Science</i> , 237:527-531 (1987)
	C19	Steers, "The future direction of neuro-urology drug research", <i>Current Opinion in CPNS Investigational Drugs</i> , 2(3):268-282
	C20	Steers, Barrot, Wein, "Voiding dysfunction: diagnosis classification and management", In: <i>Adult and Pediatric Urology</i> , ed. Gillenwater, Grayhack, Howards, Duckett. Mosby, St. Louis, MO; 1220-1325, 3rd edition (1996)

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/GS/	C21	Weinstock et al., "A General, One-Step Synthesis of α -keto Esters", <i>Synthetic Communications</i> , <u>11</u> (12):943-946 (1981)
	C22	Vogel's textbook, "Practical Organic Chemistry" 1046-1047 (5th Ed.)
	C23	"Design of prodrugs", ed. H. Bundgaard, Elsevier (1985)
	C24	Kaiser et al, "Synthesis and Antimuscarinic Activity of Some 1-Cycloalkyl-1-hydroxy-1-phenyl-3-(4-substituted piperazinyl)-2-propanones and Related Compounds", <i>Journal of Medicinal Chemistry</i> , <u>36</u> (5):610-616 (1993)
	C25	Carter et al, "Analogues of Oxybutynin. Synthesis and Antimuscarinic and Bladder Activity of Some Substituted 7-Amino-1-hydroxy-5-heptyn-2-ones and Related Compounds", <i>Journal of Medicinal Chemistry</i> , <u>34</u> (10):3065-3074 (1991)
	C26	Morissette et al, "High-throughput crystallization: polymorphs, salts, co-crystals and solvates of pharmaceutical solids", <i>Advanced Drug Delivery Reviews</i> , <u>56</u> :275-300 (2004)

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